Atty. Docket No. STE01 P-1165 Express Mail No. EV310269546US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants

Christopher J. Norman et al.

For

CHAIR WITH FUNCTIONAL ARMREST

Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

Dear Sir:

<u>INFORMATION DISCLOSURE STATEMENT</u> <u>UNDER 37 CFR §1.97(b)</u>

Pursuant to 37 CFR §§1.56 and 1.97(b), Applicants bring to the attention of the Examiner the document listed on the attached Form PTO-1449. This Information Disclosure Statement is being filed within three months of the filing date of the above-referenced application.

A copy of the listed foreign patent documents is attached. As the Office has waived the requirement under 37 CFR §1.98(a)(2)(i) for submitting a copy of each cited U.S. patent and each U.S. patent application publication, a copy of the listed U.S. patents is not included with the submission of attached Form PTO 1449. Applicants respectfully request that the Examiner consider the listed documents and evidence that consideration by making appropriate notations on the attached form.

English abstracts of the non-English documents are enclosed.

The following is a concise statement of relevance of the non-English language documents.

- 1. DE 29809099 U1 appears to disclose an armrest.
- 2. DE 29901666 U1 appears to disclose an armrest.
- 3. DE 29508429 U1 appears to disclose an armrest.
- 4. DE 29910250 U1 appears to disclose an armrest.
- 5. DE 8814053 U1 appears to disclose an armrest.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If it should be determined that any of the listed documents do not

Applicants: Christopher J. Norman et al.

For

CHAIR WITH FUNCTIONAL ARMREST

Page

constitute "prior art" under United States law, Applicants reserve the right to present to the Office the relevant facts and law regarding the appropriate status of such documents.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

If there is any fee due in connection with the filing of this Statement, please charge the fee to our Deposit Account No. 16-2463.

Respectfully submitted,

CHRISTOPHER J. NORMAN ET AL.

By: Price, Heneveld, Cooper, DeWitt & Litton, LLP

2/27/04

Jeffrey S. Kapteyn

Registration No. 41 883

695 Kenmoor, S.E.

Post Office Box 2567

Grand Rapids, MI 49501

(616) 949-9610

JSK/cmu

| FORM PTO-14 | 449 | | | | | l | J.S. | DE | PΑ | RT | MEI | NT C | OF COMM | ERCE | ATTY, DOCKET | NO | | SEP | IAL NO. | Sheet 1 of |
|---------------------|-----|-----------|----|-----|-------|----------|-------|-----|-----|------|------|-------|-----------|----------|------------------|--------------|---|-----|-------------|------------|
| (Rev. 2-32) | | | | | | | | | | | | | MARK OF | | STE01 P-1165 | 140. | | SER | IAL NO. | |
| | | | | | | | | | | | | | | | APPLICANT | | | | | |
| | | | | | | 11 | NFC | DRN | ΙΑΝ | 101 | ۷D | ISCL | OSURE | | Christopher J. N | iorman et a | al. | | | |
| | | | | | | S | TA | TE | MEI | NT I | 3Y . | APP | LICANT | | FILING DATE | | | GRO | UP | |
| | | | | | | _(I | Jse | se | ver | al s | nee | ts if | necessary | /) | | | | | | |
| | | | | | | | | | | | U | .S. | PATEN | T DOC | UMENTS | | | | | • |
| EXAMINER INITIAL | | | DC | CL | JME | ENT | - NI | JMI | BEF | ₹ | | | DATE | | NAME | CLASS | SUBCL | ASS | | G DATE |
| | | T | Τ | | 6 | 5 | 8 | 8 | 8 | 4 | 7 | 07 | /08/2003 | Muraka | mi | | | | ii Ai i i | COI RIATE |
| | | \dagger | T | T | 6 | ┿ | - | +- | 3 | ┅ | 4 | 04 | /29/2003 | | ermann et al. | | | | | |
| | | \dagger | T | T | 6 | 5 | 4 | 6 | 3 | 0 | - | | /01/2003 | | | | | | | |
| | | T | T | T | 6 | 5 | 2 | 3 | 8 | 9 | 8 | - | /25/2003 | Ball et | al. | <u> </u> | | | | |
| | 1 | 2 0 | 0 | 3 | 0 | 0 | 3 | 0 | 3 | ₩ | 7 | 02 | /13/2003 | Chen | | - | - | | | |
| | | 2 0 | 0 | 3 | 0 | 0 | 2 | 5 | 3 | 7 | 8 | 02 | /06/2003 | Lin | | | | | | |
| | 1 | 2 0 | 0 | 3 | 0 | 0 | 2 | 0 | 3 | 1 | 0 | 01 | /30/2003 | Stumpf | et al. | | | | | |
| | | T | T | | 6 | 5 | 0 | 2 | 9 | 0 | 4 | 10 | /08/2002 | Kopish | | | | | | |
| | | | Τ | Γ | 6 | 4 | 6 | 0 | 9 | 3 | 2 | 10 | /08/2002 | Kopish | | | | | | |
| | 2 | 2 0 | 0 | 2 | 0 | 0 | 7 | 4 | 8 | 4 | 4 | 06 | /20/2002 | Klingste | | | <u> </u> | | | |
| | 2 | 2 0 | 0 | 2 | 0 | 0 | 7 | 0 | 5 | 9 | 8 | 06 | /13/2002 | Perl | | | | | | |
| | | | | Γ | 6 | 3 | 9 | 4 | 5 | 5 | 3 | 05 | /28/2002 | McAllis | er et al. | | 1 | | | |
| | 2 | 2 0 | 0 | 2 | 0 | 0 | 4 | 3 | 8 | 6 | 2 | 04 | /18/2002 | Piretti | | | | | | |
| | 2 | 2 0 | 0 | 2 | 0 | 0 | 3 | 6 | 4 | 2 | 2 | 03 | /28/2002 | Prince e | et al. | | | | | ······ |
| | | T | | | 6 | 3 | 4 | 3 | 8 | 4 | 0 | 02 | /05/2002 | Chuang | | | | | ·-· | |
| | | | | | 6 | 3 | 4 | 1 | 8 | 2 | 1 | 01 | /29/2002 | Rousse | au | | | | | |
| | | | | | 6 | 2 | 9 | 6 | 3 | 1 | 2 | 10 | /02/2001 | Conglet | on et al. | 1 | | | | |
| | | | | | 6 | 2 | 1 | 3 | 5 | 5 | 6 | 04 | /10/2001 | Chen | | | | | | · |
| | | | | | 6 | 2 | 0 | 9 | 9 | 6 | 1 | 04 | /03/2001 | Chen | | | | | | |
| | | | | | | | | | • | F | DR | EIG | N PATE | ENT DO | DCUMENTS | - L , | <u> </u> | | | |
| | | | | 000 | CUN | ΛEΙ | NT I | NUI | мві | ΞR | - | | DATE | | COUNTRY | CLASS | SUBCLA | ASS | TRANS | LATION |
| | 4 | -,- | _ | | _ | | | , | | | _ | Ţ | | | | | | | YES | NO |
| | + | + | +- | + | - | - | 3 | 1 | 5 | 1 | 8 | 6 | 1993 | | Canada | | | | | |
| | _ | + | + | + | - | _ | 1 2 | 3 | 3 | 1 | 3 | 2 | 2002 | | Germany | | | | | |
| | | | _1 | ┸ | - 1 ' | + | 4 | 0 | 4 | 6 | 3 | 9 | 1993 | I | Germany | [| | - 1 | | l |

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

Germany

1 9 9 5 9 1 0 4 2001

| EXAMINER | DATE CONSIDERED |
|----------|-----------------|

| | | | | | | | | | | | | | | | | | | | , | s | heet 2 of |
|---------------------|----------|----------|----------|----------|----------------|----|------------|----------------|-----|------|-------|-----|--------------|--------------------|--|---------------------------------------|-------------|--|--------------|----------|-----------------|
| FORM PTO-1 | 449 | | | | | | | | | | | | | F COMM | | ATTY, DOCKE | | | SER | AL NO. | |
| (Rev. 2-32) | | | | | | | P | ATE | ENT | ΓAI | ΝD | TR | ADE | MARK OF | FICE | STE01 P-1165 | <u> </u> | | | | |
| | | | | | | | | | | | | | | | | APPLICANT | | | | | |
| | | | | | | | | | | | | | | .OSURE | | Christopher J. | Norman et a | l. | | | |
| | | | | | | | | | | | | | | LICANT | | FILING DATE | | | GRO | UP | |
| · · · | | | | | | | <u>(</u> L | Jse | sev | vera | al si | iee | ts if r | necessary |) | <u></u> | | | L | | |
| | | | | | | | | | | | | U | .S. | PATEN ⁻ | r DOC | UMENTS | | | | | |
| EXAMINER INITIAL | | | | DO | CUN | ΛE | NT | NL | JME | BEF | | | | DATE | | NAME | CLASS | SUBC | LASS | ı | DATE OPRIATE |
| - | | | | | П | 6 | 2 | 0 | 9 | 8 | 4 | 0 | 04 | /03/2001 | Chen | · · · · · · · · · · · · · · · · · · · | | | | | |
| | | | | | 1 | 6 | | 0 | 3 | + | 0 | 9 | 03 | /20/2001 | Beraste | en et al. | | | | | |
| | | | \vdash | _ | 1-1 | 6 | 1 | 7 | 6 | 5 | 5 | ├ | ⊢ | /23/2001 | Lamart | | | _ | - | | |
| | | ┝ | | \vdash | ₩ | 6 | 1 | ├ | 2 | 5 | 7 | 0 | <u> </u> | /07/2000 | | en et al. | | | | | |
| | \vdash | ┝ | - | Н | | 6 | 1 | l ` | 9 | 1 | 0 | ⊢ | — | /31/2000 | Lee | on or all | _ | | | <u> </u> | |
| | \vdash | ⊢ | - | ┝ | ↤ | 6 | 1 | ⊢ | 5 | 5 | 2 | - | | /03/2000 | Stumpt | ot al | | - | | | |
| | \vdash | _ | - | H | \vdash | 6 | 1 | - | 6 | ┰ | 7 | ⊢ | - | /22/2000 | Ritt et a | | | - | | ļ | |
| | \vdash | _ | - | ┡ | | _ | ⊢ | ├ | ╌ | ╌ | ├ | - | | | | | | | | | |
| | <u> </u> | | - | _ | ₩ | 6 | 0 | 7. | 6 | 8 | 9 | ⊢ | ⊢ | /20/2000 | | kken et al. | <u> </u> | | | | |
| | | _ | \vdash | \vdash | ₩ | 6 | 0 | 7 | 6 | ╌ | 9 | ├- | \vdash | /20/2000 | Bernha | rdt | | | | | |
| | | | _ | <u> </u> | \vdash | 6 | 0 | 7 | 4 | 0 | 1 | 2 | | | Wu | | | <u> </u> | | | |
| | _ | | L | L | ₩ | 6 | 0 | 6 | 2 | - | 4 | 6 | <u> </u> | /16/2000 | Bock | | | | | | _ |
| | Ш | | | L | Ш | 6 | 0 | 5 | 9 | 3 | 6 | 6 | 05 | /09/2000 | Hu | | | | | | |
| | | | | L. | | 6 | 0 | 5 | 3 | 5 | 7 | 8 | 04 | /25/2000 | van He | kken et al. | | | | | |
| | Ш | | | L | Ш | 6 | 0 | 4 | 5 | 1 | 9 | 1 | 04 | /04/2000 | Piretti | | | | | | |
| | | | | | | 6 | 0 | 2 | 2 | 0 | 7 | 9 | 02 | /08/2000 | Bergste | en et al. | | | | | |
| | | | | | | 6 | 0 | 1 | 7 | 0 | 9 | 1 | 01 | /25/2000 | Cao | | | | | | |
| | | | | Г | | 5 | 9 | 7 | 5 | 6 | 4 | 0 | 11 | /02/1999 | Chen | | | | | | |
| · | | | | | П | 5 | 9 | 7 | 1 | 4 | 8 | 4 | 10 | /26/1999 | Lamart | et al. | | - | | | |
| | 1 | T | | | | | | | | | F | OR | EIG | SN PATE | NT D | OCUMENTS | | | | | |
| | | | | E | ос | UN | ΛEΙ | NT I | NU | мв | ER | | | DATE | | COUNTRY | CLASS | SUBC | LASS | TRANS | LATION NO |
| | T | \vdash | Τ | Т | 1 | T | 9 | 7 | 1 | 7 | Το | 7 | 7 | 1998 | - | Germany | | | | 120 | - 110 |
| | | \vdash | 1 | T | 2 | | -+ | 8 | 0 | 9 | 0 | — | - | 1999 | | Germany | | | | | × |
| | | T | T | T | 2 | | _ | 9 | 0 | 1 | 6 | - | - | 2000 | | Germany | _ | | | | × |
| | | | Γ | Τ | 2 | T | | 5 | 0 | 8 | 4 | 2 | 9 | 1996 | | Germany | | | | | × |
| | | | ОТ | 'HI | ER | D | 00 | ะบเ | ИE | N7 | rs | (in | clu | ding Au | thor, | Γitle, Date, P | ertinent P | ages, | Etc.) | | • |
| | | L | L | | | | | | | | | | | | | | | | | | |
| | <u> </u> | | | | | | | | | | | | | | | | | | | | |

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

DATE CONSIDERED

EXAMINER

| 50011076 | | | | | | | | | | | _ | | | | | | | Sheet 3 of |
|------------------|-----|-------------|-------------|--------------|----------|-----|----------|-----|-----|----------|----------|----------|----------------|--------------|------------------------------|-----------|---------|---------------|
| FORM PTO-14 | 149 | | | | | | | | | | | | NT OF COMME | | ATTY. DOCKET N | IO. | SE | ERIAL NO. |
| (Rev. 2-32) | | | | | | | Ρ/ | 416 | :NI | A۱ | ND | IRA | ADEMARK OF | FICE | STE01 P-1165 | | | |
| | | | | | | | IN | EO | DIA | ΛТ | ını | וטו | SCLOSURE | | APPLICANT Christopher J. Nor | maa at al | | |
| | | | | | | | | | | | | | APPLICANT | | FILING DATE | man et ai | | ROUP |
| | | | | | | | - | | | | | | s if necessary |) | TIEMO DATE | | 0, | (00) |
| | | | | | | | | | | | | | , | <u></u> | <u> </u> | | | |
| | | | | | | | | | | | | U | .S. PATEN | r doc | UMENTS | | | |
| EXAMINER INITIAL | | | | DC | CL | IME | NT | NU | JME | ER | | | DATE | | NAME | CLASS | SUBCLAS | S FILING DATE |
| | | T | | Г | | 5 | 9 | 4 | 4 | 3 | 8 | 6 | 08/31/1999 | Yamao | jishi et al. | | | |
| | | 5 9 3 1 5 3 | | | | | | | | | \vdash | 7 | 08/03/1999 | Gollin | | | | |
| | | H | 5 9 3 1 5 3 | | | | | | | | | 6 | | Wu | | | | - |
| | - | ┢ | | \vdash | ╁╌ | 5 | ļ- | 2 | 7 | 8 | 1 | 1 | 07/27/1999 | Tseng | | | | |
| | | ┢ | H | \vdash | 十 | 5 | 9 | 1 | 8 | 9 | 3 | 8 | | Miotto | | | | |
| | | ╁╌ | H | | ╁ | 5 | 9 | 0 | 8 | 2 | 2 | 1 | | Neil | | | | |
| | | ┝ | ┢ | \vdash | ⊢ | 5 | <u> </u> | 9 | 5 | 0 | 9 | <u> </u> | | Chen | | | | |
| | | ┝ | ⊢ | \vdash | ╀ | 5 | 8 | 8 | 4 | 9 | 7 | 6 | | Breen | ot ol | | | |
| | | ┝ | ├ | - | - | 5 | 8 | 8 | 4 | 9 | 7 | 5 | | Su | et ai. | | | |
| | | ┝ | | ╁ | ╀ | ┿ | | ⊢ | - | \vdash | _ | \vdash | | ļ | | | | |
| | | ╀ | H | ┢ | ┢ | 5 | 8 | 8 | 4 | 9 | 7 | 4 | | | en et al. | | | |
| | | ┝ | ⊢ | ╀ | _ | 5 | 8 | 7 | 9 | 0 | 5 | 4 | | Cao | | | | |
| | | ┡ | L | - | ╀ | 5 | ↓ | 7 | 6 | 0 | 9 | 7 | | Cao | | 1 | | |
| | | - | L | ╀ | - | 5 | 8 | 5 | ⊢ | 2 | 2 | 3 | | Ritt et | al. | | | |
| | | _ | _ | \vdash | _ | 5 | — | 4 | 8 | 8 | 2 | 3 | | Su | | | ··· | |
| | | lacksquare | L | $oxed{\bot}$ | <u> </u> | 5 | ├ | ├ | 5 | 9 | 6 | 5 | | Heath | et al. | <u> </u> | | |
| | | <u> </u> | L | L | _ | 5 | 8 | 3 | L | 7 | 8 | 6 | 11/24/1998 | Cvek | | | | |
| | | 1 | ı | | 1 | 5 | 7 | 8 | 12 | 5 | 3 | 6 | 07/21/1998 | Heidm: | ann et al. | | | 1 |

FOREIGN PATENT DOCUMENTS

06/30/1998 Stumpf et al.

| | | DO | OCL | JME | NT | NU | мв | ER | | | DATE | COUNTRY | CLASS | SUBCLASS | TRANS | LATION |
|--|-------------|----|-----|-----|----|----|----|----|---|---|------|---------|-------|----------|-------|--------|
| | | | | | | | | | | | | | | | YES | NO |
| | | | 2 | 9 | 9 | 1 | 0 | 2 | 5 | 0 | 1999 | Germany | | - | | × |
| | 8 8 1 4 0 5 | | | | | | | | | | 1988 | Germany | | | | × |
| | 1 1 0 6 1 1 | | | | | | | | | | 2001 | EPO | | | | |
| | | | | 0 | 5 | 8 | 7 | 5 | 3 | 7 | 1994 | EPO | | | | |

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

| | H | |
|----------|---|-----------------|
| EXAMINER | | DATE CONSIDERED |

| | | | | | _ | | | | | | | | | | | | | | | Sheet 4 of 7 |
|--------------|----------|------------------------------------|----------|-----------|-----|-----|-----|--------|------|-------|-----|----------|-------------|--------------|------------------|-------------|-------|----------|----------|--------------|
| FORM PTO-144 | 19 | | | | | U | .S. | DE | PAF | RTN | ۱E۱ | NT (| OF COMME | RCE | ATTY, DOCKE | ΓNO. | | SERI | AL NO. | |
| (Rev. 2-32) | | | | | | P | ATE | EN٦ | ۱A | ΝD | TR | ADI | EMARK OF | FICE | STE01 P-1165 | | | | | |
| | | | | | | | | | | | | | | | APPLICANT | | | | | |
| | | | | | | | _ | | | | | | LOSURE | | Christopher J. N | lorman et a | l | | | |
| | | | | | | | | | | | | | PLICANT | | FILING DATE | | | GRO | UP | |
| | | | | - | | (L | Jse | se | /era | ıl si | nee | ts if | necessary |) | l | | | | | |
| | | | | | | | | | | | U | .S. | . PATEN | r DOC | UMENTS | | | | | |
| EXAMINER | | | DC | ocu | IMF | NT | NI | JMF | SER | } | | | DATE | | NAME | CLASS | SUBCI | ASS | FILIN | G DATE |
| INITIAL | 4 | _ | _ | , U U | _ | | | | 1 | , . | | L | | | | 02.00 | 0000. | -7100 | IF APPI | ROPRIATE |
| | _ | ┷ | L | ↓ | 5 | 7 | 6 | 9 | 4 | 9 | 7 | 0 | 6/23/1998 | Tsai | | | | | <u> </u> | |
| | _ | | L | ļ | 5 | 7 | 6 | 5 | 9 | 2 | 0 | 0 | 6/16/1998 | Lai | | | | | | |
| | | \perp | | | 5 | 7 | 5 | 2 | 6 | 8 | 3 | 0 | 5/19/1998 | Novis e | et al. | | | | | |
| | | | | | 5 | 7 | 4 | 9 | 6 | 2 | 8 | 0 | 5/12/1998 | Synder | et al. | | | | | |
| | | | | | 5 | 7 | 3 | 5 | 5 | 7 | 7 | 0 | 4/07/1998 | Lin | | | | <u> </u> | | |
| | | | | | 5 | 6 | 7 | 6 | 4 | 8 | 3 | 1 | 0/14/1997 | Koubel | ς | | | | | |
| | Т | | | | 5 | 6 | 6 | 7 | 2 | 7 | 7 | 0 | 9/16/1997 | Van De | Riet | | | | | |
| | T | | Π | Г | 5 | 6 | 6 | 4 | 8 | 4 | 2 | 0 | 9/09/1997 | Tseng | | | | | | |
| | 1 | 5 6 5 5 8 1 4 08/12/1 | | | | | | | | | | | 8/12/1997 | Gibbs | - | | - | | | |
| | 丁 | ┨╍╽╶╏╶┞═╏┈╏┈╏┈╏┈╏┈╏┈╏ ┈ | | | | | | | | | | 0 | 7/29/1997 | Groth | | | | | | |
| | 丁 | \top | T | | 5 | 6 | 4 | 9 | 7 | 4 | 1 | 0 | 7/22/1997 | Beggs | | <u> </u> | | | | |
| | \dashv | ╅ | T | | 5 | 6 | 4 | 7 | 6 | 3 | 8 | 07 | 7/15/19997 | 1 | al. | | | | | |
| | \dashv | \top | T | T | 5 | 6 | 4 | 1 | 2 | 0 | 3 | 0 | 6/24/1997 | Van De | Riet et al. | | | | | |
| | 7 | ╅ | T | ✝ | 5 | 6 | 2 | 0 | 2 | 3 | 3 | 0 | 4/15/1997 | Corwin | | | | | 1 | |
| | 1 | \top | T | ╁╌ | 5 | 5 | + | 9 | 0 | 6 | 7 | 10 | 2/04/1997 | Schuel | ke et al. | | | | | |
| - | \dashv | \dagger | ╁ | 十 | 5 | - | 9 | 7 | 2 | - | 8 | 0 | 1/28/1997 | Bonutti | | | | | | |
| - + | 十 | + | ╁╌ | 十 | 5 | 5 | - | 7 | 2 | 0 | 7 | ╁ | | Bergste | | + | | | ļ | |
| | \dashv | + | ╁ | \dagger | 5 | + | 9 | 0 | 9 | 3 | 4 | +- | 1/07/1997 | Gibbs | on or an | | | | | |
| | | | <u> </u> | Т | 1 | | 1 | | 1.0 | | | | 7170771007 | 10.000 | | l | l | | <u> </u> | - |
| | | | | | | | | - | | F | OF | REI | GN PATI | ENT D | OCUMENTS | | | | | |
| | | | | 000 | CUM | 1EN | 1 T | NUI | иве | ₽R | | | DATE | | COUNTRY | CLASS | SUBCL | ASS | TRAN | SLATION |
| | _ | | _ | | _ | _ | _ | | | | | | | | | | | | YES | NO |
| | \perp | _ | + | 4 | | | _ | 5 | 7 | 4 | 2 | 8 | + | ļ | EPO | | | | | ļ |
| | \dashv | + | + | + | - | | | 8 | | 9 | 2 | 1 | | | EPO EPO | | | | | |
| | \dashv | + | + | + | - | - | _ | 5 6 | 9 | 7 | 5 | | | | EPO EPO | | | | | |
| | | | | | _L' | ٠ | 3 | ر د | ٥ | | | <u>_</u> | 1999 | L | EPO | l | | | <u> </u> | 1 |
| | | 0 | ТН | ER | D | oc | U | ME | N7 | rs | (in | cli | uding Au | thor, | Title, Date, Pe | rtinent P | ages, | Etc.) | | |
| | | \top | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| FXAMINE | | | | | | | | | | | | | | DΛ | TE CONSIDE | PED. | | | | |

| | | | | | | | | | | | | | | | | | | | : | Sheet 5 of 7 |
|-------------|----------|----------------------|----------|----------|---------|-----|------|-----|--------|------|-------|--------------|--------------------|---------|-------------------|---------------------------------------|----------|-------|----------|----------------|
| FORM PTO-14 | 149 | | | | | U. | S. I | DEF | PAF | RTN | /EN | ΤО | F COMM | RCE | ATTY. DOCKET | NO. | | SERI | AL NO. | |
| (Rev. 2-32) | | | | | | PA | ١TE | NT | A١ | ۱D. | TRA | DEI | MARK OF | FICE | STE01 P-1165 | | | | | |
| | | | | | | | | | | | | | | | APPLICANT | | | | | |
| | | | | | | IN | FO | RM | ΑT | 101 | l DI: | SCL | OSURE | | Christopher J. No | orman et a | l | | | |
| | | | | | | Sī | ΓΑΊ | ΈM | IΕΝ | IT E | BY A | PPI | LICANT | | FILING DATE | | | GRO | UP | |
| | | | | | _ | (U | se | sev | era | l sh | eet | s if r | necessary |) | [| | | | - | |
| | | | | | | | | | | | U. | S . 1 | PATEN ⁻ | r doc | UMENTS | | | | | |
| EXAMINER | | | חר | CUM | <u></u> | NT | NI | MA | ER | , | T | | DATE | I | NAME | CLASS | SUBC | 224 | FILIN | G DATE |
| INITIAL | | | T | | _ | | | _ | | _ | | | | | TIANE | 00.00 | 0000 | D-100 | IF APP | ROPRIATE |
| | - | - | ╄ | + + | 5 | 5 | 8 | 8 | 7 | 6 | 6 | | | Lai | | | | | | |
| | | \bot | ╄- | + | 5 | 4 | 9 | 8 | 0 | 3 | 9 | | /12/1996 | Bivens | | | <u> </u> | | | |
| | | | <u> </u> | \sqcup | 5 | 4 | 8 | 4 | 1 | 8 | 7 | 01. | /16/1996 | Doerne | er et al. | | ļ | | <u> </u> | |
| | | \bot | ┖ | \sqcup | 5 | 4 | 6 | 2 | 3 | 3 | 8 | 10 | /31/1995 | Bauma | nn | | | | | |
| | | \perp | | | 5 | 4 | 3 | 9 | 2 | 6 | 8 | 08 | /08/1995 | Dozsa- | Farkas | _ | | | | |
| | | | | Ц | 5 | 4 | 3 | 9 | 2 | 6 | 7 | 08 | /08/1995 | Peters | on et al. | | | | | |
| | | | | Ш | 5 | 4 | 3 | 5 | 6 | 2 | 6 | 07 | /25/1995 | Lai | | | | | | |
| | | | | | 5 | 4 | 1 | 5 | 4 | 5 | 9 | 05 | /16/1995 | Schultz | 2 | | | | | |
| | | 5 4 0 7 2 4 9 04/18/ | | | | | | | | | | | | Bonutti | | | | | | |
| | | 5 3 9 3 1 2 5 02/28/ | | | | | | | | | | | | Watso | n et al. | | | | | |
| | | | | | 5 | 3 | 9 | 3 | 1 | 2 | 4 | 02 | /28/1995 | Neil | | | | | | - |
| | | | | | 5 | 3 | 8 | 8 | 8 | 9 | 2 | 02 | /14/1995 | Torner | 0 | | | | | |
| | | | | П | 5 | 3 | 8 | 2 | 0 | 7 | 9 | 01 | /17/1995 | Wilson | et al. | | | | | |
| | | | T | | 5 | 3 | 8 | 0 | 0 | 6 | 5 | 01 | /10/1995 | Rohrer | | | | | | |
| | | | T | П | 5 | 3 | 6 | 8 | 3 | 6 | 5 | 11 | /29/1994 | Feldbe | rg | | | | | |
| | | | T | П | 5 | 3 | 4 | 2 | 1 | 1 | 5 | 08 | /30/1994 | De Fili | оро | | | | | |
| | | \top | T | П | 5 | 3 | 1 | 8 | 3 | 4 | 7 | 06 | /07/1994 | Tseng | | | | | | <u> </u> |
| | | | T | | 5 | 2 | 8 | 1 | 0 | 0 | 1 | 01 | /25/1994 | Bergst | en et al. | | | | | |
| | | | | | | | | | | F | OR | EIG | N PATI | ENT D | OCUMENTS | | | | | |
| | | | | DOC | UN | ΛΕΙ | NΤ | NU | мв | ER | | | DATE | | COUNTRY | CLASS | SUBC | LASS | TRAN | SLATION |
| | | | | | T | | | | | | _ | Ţ | 1 | | | | | | YES | NO |
| | \sqcup | \perp | \perp | + | ┵ | 읶 | 1 | 6 | 6 | 8 | - | 0 | 1986 | - | EPO | - | | | | ļ |
| | | _ | + | +- | | | 3 | 6 | 3 | 0 | | 4 | 2001 | - | Great Britain | - | | | | ' |
| _= | \vdash | + | + | 6 | - | _ | 1 | 3 | 7 9 | 9 | - | 1 | 1987 1996 | + | Japan PCT | | | | | |
| | ш | | | | 1 | ٦ | ۷ | | ے | La | T | <u> </u> | 1 1990 | 1 | 101 | ı | <u> </u> | | | |
| | | 0 | TH | ER | D | 00 | :UI | ME | :N1 | ΓS | (in | clu | ding Au | ithor, | Title, Date, Per | rtinent P | ages, | Etc.) | | |
| | | $\vdash \vdash$ | | | | | | | | | - | | | | | | | | · | |
| | | <u> </u> | | | | | | | | | | | | | | · · · · · · · · · · · · · · · · · · · | | | | |
| EYAMINE | :D | | | | | | | | | | | | | n^ | TE CONSIDEE | en. | | | | |

| | _ | | | | | | | | | | | | | | | | | | s | heet 6 of 7 |
|------------------|-----------|-----------|-----------|-----------|----------|------------|-----|-----|--------------|--------------|----------|------|--|--------------|--------------------|--|-------------|-------|---------------------------------------|-----------------|
| FORM PTO-1 | 449 | | | | | U | .S. | DE | PAF | RTN | (EN | ГΟ | F COMME | RCE | ATTY. DOCKET N | Ю. | | SERI | AL NO. | |
| (Rev. 2-32) | | | | | | P | ATE | ENT | . AN | D. | TRA | DEN | MARK OF | FICE | STE01 P-1165 | | | | | |
| | | | | | | | | | | | | | | | APPLICANT | | | | | |
| | | | | | | IN | ŀFO | RM | ΙAΤ | 101 | DIS | CL | OSURE | | Christopher J. Nor | man et a | l . | | | |
| | | | | | | s | TAT | ΈN | 1EN | IT E | Y A | PPL | ICANT | | FILING DATE | | | GRO | JP | |
| | | | | | | <u>(</u> (| Jse | sev | rera | l st | eets | if n | ecessary |) | | | | | | |
| | | | | | | | | | | | U. | S. I | PATENT | DOC | CUMENTS | | | | | |
| EXAMINER INITIAL | | | D | ОС | UME | NT | NL | JME | BER | | | f | DATE | | NAME | CLASS | SUBCLA | ASS | | DATE OPRIATE |
| | | | Т | Т | 5 | 2 | 6 | 5 | 9 | 3 | 8 | 11/ | /30/1993 | Melhui | sh et al. | | | | | |
| | | | \dagger | \dagger | 5 | - | 4 | 3 | 4 | 2 | 2 | 09/ | 01/1992 | Althofe | er et al. | 1 | | | | |
| | | T | \dagger | \dagger | 5 | 0 | 0 | 9 | 4 | 6 | 7 | 04/ | /23/1991 | МсСоу | , | | | | | |
| | | _ | \top | + | 4 | 9 | 9 | 7 | 0 | 5 | 4 | 03/ | | Denny | | 1 | | | | |
| | H | 1 | \top | \top | 4 | 9 | 6 | 1 | 6 | 1 | 0 | 10/ | /09/1990 | Reede | | † | ļ | | | |
| | | \dashv | + | \dagger | 4 | 9 | 5 | 1 | 9 | 9 | 5 | | /28/1990 | Терро | | | | | | |
| | | \dashv | + | + | 4 | ┢ | 8 | 1 | 4 | 2 | 4 | | /21/1989 | Clark e | | | | | - | |
| | | | + | + | 4 | 8 | 4 | 8 | 8 | ⊢ | 0 | | | Тоуа | | | | | | |
| | H | \vdash | + | + | 4 | ╌ | + | 7 | 9 | | 5 | | /28/1989 | King | | | | | | |
| | \vdash | \dashv | + | + | 4 | 7 | - | 5 | 1 | 9 | 0 | | /15/1988 | Franke | ·ma | | | | | |
| - | - | \vdash | + | + | 4 | ┼ | +- | 4 | 7 | 9 | 0 | | /23/1987 | Johnso | | ╁ | | | | |
| | \vdash | \forall | + | + | 4 | + | +- | 9 | 1 | 3 | 5 | | /21/1987 | Johnso | | 1 | | | | |
| | \vdash | Н | + | + | 4 | ┰ | + | 9 | 4 | 7 | 8 | | /28/1986 | | ick et al. | + | | | | |
| - | \vdash | \forall | + | + | 4 | ╁ | + | | 3 | ⊢ | 1 | _ | /18/1986 | Brink | ion of an | <u> </u> | | | | |
| | \vdash | H | + | + | 4 | + | +- | 6 | 1 | 9 | 0 | - | /29/1985 | Barley | | | <u> </u> | | | |
| | | Н | + | + | 4 | ╁ | ┿ | 9 | 9 | 8 | 1 | | /25/1984 | Golets | | | | | | |
| | ┝╌ | - | + | + | | ╁ | +- | ┼ | | ╄— | 8 | | | | | | | | | |
| | | \dashv | + | + | 4 | ┿ | + | 1 | 3 | ╁ | \vdash | | /19/1982 | Moorh | | . | | | | |
| | | | | | 4 | 2 | 7 | 7 | 1 | 0 | 2 | 07. | /07/1981 | Aaras | et al. | <u> </u> | <u> </u> | | | |
| | | | | | | | | | | F | OR | EIG | N PATI | ENT D | OCUMENTS | | | | | |
| | | | | DO | ocu | ME | NT | NU | мв | ER | | | DATE | i | COUNTRY | CLASS | SUBCLA | ASS | | LATION |
| | \vdash | | | | | 9 | 6 | 4 | 0 | 5 | 3 | 7 | 1996 | - | PCT | | | | YES | NO |
| | + | | H | \vdash | \vdash | 8 | 6 | 0 | 3 | _ | - | 7 | 1986 | | PCT | - | | | | |
| | \dagger | | \vdash | \vdash | H | Ť | Ť | Ť | Ť | Ľ | Ť | Ė | | 1 | | | | | | |
| | 1 | Г | М | \vdash | | | | | T | \dagger | 1 | - | | 1 | | | | | · · · · · · · · · · · · · · · · · · · | |
| | 1 | . (| т | HE | R D | 00 | cu | ME | N7 | ΓS | (in | clu | ding Au | thor, | Title, Date, Pert | inent P | ages, E | Ētc.) | | |
| | | \vdash | - | | | | | | | | | | | | | <u> </u> | _ | | | |
| EXAMINE | ER | | 1 | | | | | | | | | | | DA | TE CONSIDERI | ≣D | | | | |

| _ | | | | | | | | | | | | | | | | | | | | | S | heet 7 of 7 |
|-------------|----------|------------------------|----------|--|----------|----------|----------|----------|-----|----------|-------|----------|----------------|--------------------|--------------|-------------|-------------|-----------|-------|-------|--------|--|
| FORM PTO-14 | 149 | | | | | | U | .S. | DEF | PAF | RTN | 1EN | ΤО | F COMME | RCE | ATTY. DOC | CKET N | Ο. | | SERI | AL NO. | |
| (Rev. 2-32) | | | | | | | P | ATE | NT | A١ | ۱D. | TRA | DE | MARK OF | FICE | STE01 P-1 | 165 | | | | | |
| | | | | | | | | | | | | | | | | APPLICAN' | T | | | | | |
| | | | | | | | ١N | IFO | RM | ΑТ | 101 | I DI | SCL | OSURE | | Christopher | r J. Non | man et al | | | | |
| | | | | | | | S | TAT | EM | IEN | IT E | BY A | PPI | ICANT | | FILING DA | TE | | 1 | GRO | UP | |
| | | | | | | | (L | Jse | sev | era | l st | eet | s if r | necessary |) | | | | | | | |
| | • | | | | | | | | | | | U. | . S . I | PATEN [*] | r DOC | UMENTS | | | | | | |
| EXAMINER | | | | | _ | | | _ | | | | | | | ļ | | | | | | FILING | 3 DATE |
| INITIAL | | | _ | DO | CU | ME | NT | NU | IMB | ER | ` | | | DATE | | NAME | | CLASS | SUBCL | ASS | _ | OPRIATE |
| | | L | | L | | 4 | 2 | 4 | 4 | 6 | 2 | 3 | 01 | /13/1981 | Hall et | al. | | | | | | |
| | | | | | | 4 | 0 | 4 | 0 | 6 | 6 | 5 | 08 | /09/1977 | Wallac | e et al. | | | | | | |
| | | Г | Г | | Γ | 3 | 9 | 5 | 0 | 0 | 2 | 7 | 04 | /13/1976 | Wilson | | | | | | | |
| | | | | Г | Ī | 3 | 9 | 0 | 9 | 0 | 6 | 3 | 09. | /30/1975 | Bonisc | h et al. | | | | | | |
| - | | | | | T | 3 | 8 | 2 | 9 | 1 | 5 | 9 | 08 | /13/1974 | Leffler | | | | | | - | |
| | | T | T | Г | ┢ | 3 | 6 | 1 | 2 | 6 | 0 | 6 | 10. | /12/1971 | Swens | on | | | | | | |
| | | | | | \vdash | 3 | 4 | 8 | 9 | 4 | 5 | 8 | | /13/1970 | Karlser | 1 | | | | | | |
| - | | H | | ┢ | 十 | 3 | 1 | 4 | 0 | 1 | 1 | 9 | 07 | /07/1964 | Offner | | | | | | | |
| | | | | ┢ | T | 3 | 0 | 2 | 5 | 1 | 0 | 8 | 03 | /13/1962 | Teague | e. Jr. | | | | | | |
| | | 2 8 5 8 8 7 6 11/04/19 | | | | | | | | | | | | | Woods | | | | | | | |
| | | - | ┢ | H | <u> </u> | 1 | + | - | 2 | 5 | 9 | 6 | | | Bishop | | | | | | | |
| | | Н | \vdash | ┢ | ┢ | † | 9 | + | 4 | 4 | 7 | 4 | | /14/1911 | Dann | | | | | | | |
| - | | H | H | | | T | \vdash | \vdash | 十 | | H | Н | | | | | | | | | | |
| | _ | \vdash | \vdash | Γ | T | | T | \vdash | T | | T | | | | <u> </u> | | | | | | | |
| | | - | T | | T | T | T | T | | T | T | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | Г | Π | Γ | Γ | | | | | | | | | | | | | |
| | | | | Γ | | Г | Π | Γ | | | Г | | | | | | | | | | | |
| | | | | | | | | | | | F | OR | EIG | N PAT | ENT D | OCUMENT | τs | | | | | |
| : | | | | ı | DO | CUI | ME | NT | NU | MB | ER | | | DATE | | COUNTRY | | CLASS | SUBCL | ASS | | SLATION |
| | | \vdash | _ | _ | ī | - 1 | . , | | | ı | 1 | _ | _ | | <u> </u> | | | | | | YES | NO |
| | ļ | ╀ | + | + | + | \dashv | 4 | _ | | <u> </u> | ╀ | \vdash | \vdash | <u> </u> | | | | ļ | | , | | |
| | | ╁ | + | + | + | + | - | | | \vdash | + | + | - | | - | | | - | | | | |
| | - | ╁ | ┿ | + | + | \dashv | - | | - | H | ╁ | ╁╴ | ╁╌ | | | | | - | | | | |
| | <u> </u> | | 0. | ГΗ | ER | R D | 00 | יטכ | ME | N1 | rs | (in | clu | ding Au | ithor, | Title, Date | , Pert | inent P | ages, | Etc.) | | |
| | | - | + | | - | | | | | | | | | - | | | | | | | | |
| | | | | | | | | | | | | | | | 1 | | | | | | | |
| EXAMINE | R | | | | | | | | | | | | | | DA | TE CONSI | IDERE | D | | | | |